

**Patent** [19]

[11] Patent Number: 2000028163

[45] Date of Patent: Jan. 25, 2000

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## [54] AIR-CLEANING DEVICE

[21] Appl. No.: 10191870 JP10191870 JP

[22] Filed: Jul. 07, 1998

[51] Int. Cl.<sup>7</sup> F24F00316 ; A61L00900; B01D05386; B01J03502

## [57] ABSTRACT

PROBLEM TO BE SOLVED: To provide an air-cleaning device for supplying air by eliminating the contaminant of fresh air and adjusting the temperature of the fresh air.

SOLUTION: A photocatalyst carrier 32 for carrying a photocatalyst and a light source 33 are retained at an air supply wind path for supplying air a treatment unit 2 exclusive for fresh air including a heat exchanger 22 for adjusting the temperature of only air from the outdoor in an air-cleaning device 1. The photocatalyst carrier 32 or the like are provided at an outlet unit 3. Also, the photocatalyst carrier 32 or the like are provided at a pipe 43 of a duct 4 as a duct-installation-type light catalysis unit 50. Also, the photocatalyst carrier 32 and the like are accommodated in a casing 20 of a treatment unit 70 exclusive for fresh air. The cleaner unit of the photocatalyst unit 50 and the outlet unit 3 can be easily mounted later, thus reducing the air-conditioning load of air-conditioner for adjusting the temperature of indoor air.

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